BRUHAT BANGALORE MAHANAGARA PALIKE
RAJARAJESHWARINAGAR ZONE
ELECTRICAL DIVISION
DETAILED ESTIMATE FOR PUBLIC WORKS

Name of the Work:- *Providing LED Street lights in ward No 16.*

Sl No	SR ref page	SR ref sl no	Description of Work	unit	Qty	Rate	Amount
1	xxvii	387	Supply of solar lux level street light controller -single phase 3KW	Each	2	7984.00	15968.00
2	6	2.5.3	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100 v grade, multistrand copper with low conductor resistence single core wire in open or consealed system of wiring wit specified IS-694:1990 & confirming to GTP of group A.. 2.5 sqmm	Per Mtr	4	29.20	116.80
	6	2.5.5	6 sqmm	Per Mtr	8	63.80	510.40
3	27	4.36.1	LED Street light. Supply of 90 watts LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with *supplier word mark / name shall* be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II. a) 90 w LED	Each	25	31250.00	781250.00
4	108	17.2.2	Supplying and Fixing.....mm dia class A GI pipe bracket up to 2.7 meters long terminated with a reducing collar of 40x25mm to which extra pipe of 175mm length is fixed for fixing MV/SV/MH/FTL street light fitting of all capacities on rail/RCC/wall/tubular pole, using suitable clamps, bolts ,nuts and wiring using suitable capacity wires. -Using 32mm dia G.I.pipe	Each	25	1140.00	28500.00
5	46	6.7.3	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. -63Amps	Each	2	234.00	468.00

Sl No	SR ref		Description of Work	unit	Qty	Rate	Amount
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6	46	6.12.4	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947. 100-125Amps	Each	2	9915.00	19830.00
7	47	6.16.1	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32Amps SP	Each	2	418.00	836.00
	47	6.16.2	40-63 Amps SP	Each	2	677.00	1354.00
8	49	6.39.1	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint -40x40x6mm	Per Mtr	2	263.00	526.00
9	50	6.42.2	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cutout with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility. --300mmx450mmx214mm)	Each	2	5826.00	11652.00
10	55	7.4.5	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 25 sqmm	Mtr	40	165.60	6624.00
11	61	7.8..7	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure -25 sqmm to 75 sqmm	Mtr	40	34.80	1392.00
12	62	7.14.2	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) 25mm dia	Each	2	86.00	172.00
13	64	7.21.6	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 16 sqmm	Each	16	11.31	180.96
	64	7.21.7	25 sqmm Long Barrel	Each	8	20.59	164.72
14	56	7.6.1	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A. 2 X 16 + 1 X 25 SQ.MM	Mtr	220	92.00	20240.00

Sl No	SR ref		Description of Work	unit	Qty	Rate	Amount
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15	33	5.4.2	Supply and fixing of .....cross arm including all Hardware's complete as per the standard technical specification of BESCOM 2 Pin 45x45x5mm -510mm	Each	10	306	3060.00
			Sub Total				**892844.88**
			Add KRIDL Charges @ 11%				**98212.94**
			PMC Charges @ 1% on Sub Total				**8928.45**
			Miscellanious and Roundoff				**13.73**
			Grand Total				**1000000.00**
Rupees Nine Lakh Ninety Nine Thousand Nine Hundred and Ninety Nine Only Paise Ninety Nine Only							

Certificate

1) Certified that,the work spot has been inspected by me & prepared the estimate in most economical way of executing the work.

2.) The Provisions made in the estimate are adequate and are necessary.

3.) The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.

4.) The rates in the Estimate is based on the KPWD (Elect) SR 2014-15, 2010-11 and Approved Lowest Quotation Rates.

Junior Engineer(Electrical)
RR Nagar Zone
BBMP

Assistant Executive Engineer (Elect)
RR Nagar Zone
BBMP

Executive Engineer(Elect)
RR Nagar Zone
BBMP

Administrative Sanctioned for Rs 10,00,000-00
Rs. Ten lakhs only
.....is accorded
under the head P3290
.....
By EE (Elect) RRN/ page 4 & 5
Registered as EE (Elect) RRN/No. 03/17-18 subject to conditions contained in enclosed memo No. 03/17-18 Date 22/6/18
AE, (Elect) RRN
EE, (Elect) RRN

Technically Sanctioned for Rs. 10,00,000-00
Rs. Ten lakhs only
.....is accorded
under the head P3290
.....
By EE (Elect) RRN/ page 4 & 5
Registered as R.R.N. No. 03/18-19
to conditions contained in enclosed memo
No. 03/18-19 Date 25/6/18
AE, (Elect) RRN
EE (Elect)